

# Service Coordination Board Meeting Summary

Date: 30 May 2012

Members in attendance:

	Member	In Attendance
AES	Patric Den Hartog*	√
	John Maclean	
	Geoff Pile*	√
ASD	Michael Borland	√
	Ali Nassiri	
XSD	Mark Beno	√
	Chris Jacobsen	√
Upgrade Project	Tom Fornek	√
	Mohan Ramanathan	

\* Den Hartog standing in for Pile as an AES ADD during Pile's assignment to the APS Upgrade Project

Secretary: Steve Davey

## Agenda/Action Items for 23 May 2012 Meeting

1. Update calendars from biweekly to weekly meetings (Davey) – closed
2. Start notifying proposers of approved projects with links to Board web pages (Davey) - ongoing
3. Provide names for potential members of matrixed *small* task teams to the Board members (Pile & Maclean) - ongoing
4. Provide updated list of MED tasks being actively supported (Den Hartog) – [Attachment 1a](#)
5. Provide a list of small projects for the XSD support teams (Beno) – [Attachment 2](#)
6. Talk to Tom Fornek and others to clarify the scope for Sector 35 relocation (Nassiri) - closed
7. Take first cut at project status/progress report (Pile) - ongoing
8. Review/updated Project Proposal System (PPS) and include projects that are currently being supported (Board members) - ongoing

9. Change PPS status of MED tasks being actively supported to *Provisionally Approved* (Davey) - ongoing
10. Distribute Excel template found by Den Hartog for project reporting to Board members (Davey) - closed

#### Summary of New Action Items:

1. **Action item:** Davey to notify Markovich and Glagola they will be designated as the XSD team representatives for safety interlocks and Floor Coordinator support, respectively.
2. **Action item:** Borland to revisit plans with Decker regarding plans/requirements for the relocation of ASD from Sector 35.
3. **Action item:** Borland to update the estimates of effort requirements for the remainder of the fiscal year for SCU0. Action Item: Davey to update the milestones in the project proposal system for SCU0.
4. **Action item:** Davey to change the status of projects that have been actively worked on to a status of *Provisionally Approved*. List of Approved and Provisionally Approved projects to be available for next meeting.
5. **Action Item:** Jacobson to advise Rose that a project proposal is to be submitted.

#### Summary

- Teams being formed to support emergent tasks:
  - Jacobsen provided an example of a list of items of small tasks for one of the matrixed support teams ([Attachment 2](#)).
  - The assignment of support personnel to the ASD matrixed team needs to be worked out.
  - The assignment of personnel to teams will consider best matching skill set with the team-specific tasks, professionally challenging jobs, and potentials for career development. To help get the teams off to a good start, some personnel will be asked to help pioneer the development of the teams.
  - Safety Interlocks and the User Safety Groups have personnel assigned to sectors or beamlines that don't readily map on the XSD teams formed for scientific areas. Markovich and Glagola will be designated to be the team representatives. (**Action item: Davey to notify Markovich and Glagola**). For beamline projects the liaison will focus more on equipment protection systems.

- Pile: If and when an EPS person is designated, that person may become the Interlocks liaison.
- Specific proposals:
  - Relocation of ASD from Sector 35 – it seems that much of the work will need to be internal to the group. Borland noted that since it was not the Decker Group that motivated the change, they therefore feel support for the move should be provided. There was a question about the DCS schedule. **Action item: Borland to revisit plans with Decker.**
  - SCU0 work approved – **Action item: Borland to update the estimates of effort requirements for the remainder of the fiscal year. Action Item: Davey to update the milestones in the project proposal system.**
  - TXM – Jacobsen revisited that it is under consideration if TXM will be an up- or downstream station on a canted sector.
- **Action item: Davey to change the status of projects that have been actively worked on to a status of *Provisionally Approved*.** List of approved and provisionally approved projects to be available for next meeting.
- Den Hartog reviewed how many hours have been used by various projects.
- Volker Rose seeks 25% of Curt Preissner's time. **Action Item: Jacobson advised Rose that a project proposal is to be submitted.**
- Fornek noted that if personnel are assigned to projects or support teams and are not able to meet their planned work for the upgrade, a backfill plan is needed.
- Beno noted that 8-ID will be seeking an extension to a shielding station. The level of detail needed for the station-specific portion of an RFP and the time needed to prepare the procurement requisition were discussed. Den Hartog estimated that with a clearly defined final set of requirements, it would take at least six months to prepare drawings, specifications, and get the solicitation out. Beno thought relatively simple sketches could be more quickly prepared and suffice.

## Attachment 1a

Tasks Being support by MED  
(Den Hartog 24 May 1012)

Project	Name	AES/MIS Work Performed in FY12
408	SR Chamber Cooling Skid Heat Exchanger Replacement	Replacing 2 heat exchangers each shutdown period. Existing heat exchangers are showing signs of corrosion. This is being done with group M+S, the project proposal has not been funded.
411	Booster Vacuum Ion Pump Replacement	Partial funding was received in late FY11. Pumps have been ordered for quadrants 2 and 3 of the booster, and will be replaced during shutdown periods.
478	Complete 12-ID Upgrade	The SAX chamber was delivered and is being assembled. Planned operational for next run. Effort continuing.
480	PEEM Table	On-going Part of #482
482	1-ID Instrumentation	Extensive engineering and design provided through May. Formerly on XSD top priority list. Cannot continue at same level with new XSD priorities.
485	IEX	Design and fabrication effort continuing at approved level
487	2-ID monochromator	Design completed; some parts ordered. Project on-hold due to lack of funds.
488	LTP Tip/tilt Optics table	Design nearly complete, some parts on order. Work is continuing but may have to stop to to SCB priorities.
491	Redesign deposition chamber for 4 sources	Model design is nearly complete but a few changes need to be implemented. TXM project will put this on hold. No funds anyway. Continuing with hired engineer.
492	S33 K-B Mirror Table	ER <a href="#">APS 1426509</a> In progress. Design being iterated.

494	2 <sup>nd</sup> undulator for 8-ID	Performed thermal calculations for FE
502	Grating Interferometer Design	Obtained gratings, provided assembly effort
508	11-BM sample changing robot	Putting together a back up handset for the sample changer training staff in use.
516	Low-profile MTS table	Part of #482
517	OxyGon vacuum furnace	Engineering support provided to a collaboration between NE and APS. Effort provided to facilitate the integration of a custom vacuum furnace into the 1-ID beamline instrumentation. Will need to reduce this effort.
575	AcuWeld Spare Parts	No project proposal funding has been received for this work, but the spares have been purchased with group M+S due to urgent needs.
595	Hard x-ray BPM	Designed and tested prototype. Some documentation needed to be completed.
600	S37 Scraper Repair	New scraper fabricated and installed. Design effort underway for new beam dump/scraper using HEP engineer.
608	SCU0	Extensive engineering, design, drafting, alignment support. FEA for VC with contract engineer.
<a href="#">APS 1420443</a>	Revolver Prototype	Ongoing effort
<a href="#">APS 1427701</a>	S30 diffractometer redesign	In progress
<a href="#">APS 1307982</a>	VC for SCU Straight Section	Installed in Apr-May shutdown
APS_1424258	S04 S26 SXSTM Vibration Isolation	This is in progress though progress has stalled in the past few weeks due to demand of vibration monitoring system and other activities.
APS_1424257	S04 SXSTM Rear Flange Modification	Finished
<a href="#">APS 1413042</a>	S1ID optical experimental setup	Ongoing effort since 2009. System planned for exp. In Aug
APS_1422473	S04 SXSTM Chopper	Done
APS_1413270	S07 Double Multilayer Monochromator Vibration	This is in progress but slowed to crawl due to lack

	Mitigation	of manpower.
<a href="#">APS_1428440</a>	Kimball Chamber Support	Done
<a href="#">APS_1428331</a>	Octopole Assembly Drawing	Done
<a href="#">APS_1416713</a>	8-ID-E Monochromator Upgrades Project	Done
APS_1427447	11-BM Sample Spinner Mods	Done
APS_1428340	DCCT	Work is proceeding for Sept installation. Designer effort reduced due to SCB priority decisions on

## Attachment 1b

Tasks Being support by Computer Support & Site Services  
(Maclean 23 May 1012)

Project#	Title	Manager	Status
468	Upgrade Tracewell Powers Supplies	Farnsworth, Richard	Started
409	Drawing management task force support	Leatherman, Steve L.	Started
399	XSD GRIDFTP and Small Server Upgrades	Sidorowicz, Kenneth	Will complete if \$ available
404	XSD Backup and Storage Server Upgrades	Sidorowicz, Kenneth	Will start if \$ available
403	XSD HPC Computer and Storage Upgrades	Sidorowicz, Kenneth	Will start if \$ available
406	Central Networking Upgrades	Sidorowicz, Kenneth	Started
456	Insertion Device Control Upgrade	Farnsworth, Richard	Started
463	RF IOC Crates	Farnsworth, Richard	Started
401	Accelerator On-Demand HPC and Network Diagnostics Servers	Sidorowicz, Kenneth	Complete
774	Upgrade current application servers from Oracle App Server to Weblogic	Leatherman, Steve L.	Started
433	2nd & 3rd Floor Conference Room Development	Janik, Richard E.	Will start if funded
754	Upgrade APS1 Database to version 11g	Leatherman, Steve L.	Started
753	Upgrade ICMS and Port to Red Hat machine	Leatherman, Steve L.	Started
462	Moxa Replacement for Booster/PAR (repalce Bitbus)	Farnsworth, Richard	Started
			Green indicates project that will be completed if resources allow

## Attachment 2

### Representative examples of what might be “small project” tasks in Microscopy, Imaging, Optics, and Detectors

(Chris Jacobson 20 May 2012)

#### Microscopy:

- Detector mounting with 'optimized' alignment motion for experiment (e.g., not simple x,y,z, but x,y, and z, at an adjustable angle to the beam).
- Helium enclosure for specimen, with access for microscopes, detectors, etc
- Optical table extension
- Precision alignment system for aligning two zone plates separated by 10 microns with <20 nm lateral precision (probably a large job!)
- Low vibration mounting of alignment microscope mount on beamline instrument
- Low vibration mounting of other experiment components, and analysis of vibration frequencies and amplitudes

#### Optics:

- Small beamsplitter mounts etc. for the new long trace profiler and other instruments;
- Design of profile coating masks and mounts for K-B mirrors coating;
- Mounts for grating interferometer development
- Mounts and other components for optics testing at Test beamline 1-BM

#### Detectors (Jonathan Baldwin and Chris Piatak do much of the work)

- ME consulting on design of detector hardware
- FastCCD vacuum housing
- Scintillator holders with focus adjustment
- Snout designs for cryostat-housed detectors

#### Imaging

- Mounting and integration of micro- and nano-positioning stages
- Optical table installation (this includes under the table frame design, stages between frame design to meet the table degree of freedom requirements)
- High vacuum movable pipe design
- Coordination on major beamline components repairs
- Coordination on beamline components re-alignment